Application No.: 10/528794

Amendment D Dated: November 30, 2009

Reply to Office Action of: July 6, 2009

AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions, and listings, of

claims in the application:

Listing of Claims:

1. (Currently Amended) A stainless steel member passivation treatment

method for forming a passive film on a surface of the stainless steel member, said

method comprising the steps of:

immersing the stainless steel member in an alkaline solution of pH 9 to 12 at

40 to 60°C; and

air bubbling external air into the alkaline solution, added with a pH buffer, or

provided with a pH buffer action, whereby the amount of oxygen dissolved in the

alkaline solution is increased to promote the formation of hydroxides constituting the

passive film, and by carbon dioxides dissolving in the alkaline solution falling of its

pH is suppressed, wherein the hydroxides constituting the passive film are produced

from metal ions constituting the stainless steel and hydroxide ions-; and

after immersing the stainless steel member, the member is then dried by

being held at 100 to 200°C.

2. (Cancelled)

(Cancelled) 3.

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4. (Currently Amended) A stainless steel member passivation treatment method according to claim 13, characterized in that the stainless steel member is a separator for use in a fuel cell.

5. (Currently Amended) A method for manufacturing a stainless steel separator for use in a fuel cell, characterized in that it comprises:

a step of applying a lubricant to a stainless steel thin sheet and press-forming gas flow passages and cooling water flow passages in it;

a step of removing lubricant adhered to the stainless steel thin sheet by spraying the press-formed stainless steel thin sheet with an alkaline solution for cleaning;

a step of removing alkaline solution for cleaning adhered to the stainless steel thin sheet by spraying washing water onto the stainless steel thin sheet;

a step of removing washing water remaining on the stainless steel thin sheet by spraying ion-exchange water onto the stainless steel thin sheet, wherein the washing water is mains water or industrial water;

a step of spraying an alkaline solution for passivation treatment onto the stainless steel thin sheet to passivation-treat the stainless steel thin sheet, whereby a passivation film constituted by hydroxides produced from metal ions constituting the stainless steel thin sheet and hydroxide ions is formed;

a step of removing alkaline solution for passivation treatment adhered to the stainless steel thin sheet by spraying ion-exchange water onto the stainless steel thin sheet; and

a step of thermally drying the stainless steel thin sheet, wherein the thermal drying process is carried out at 100 to 200°C.

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- 6. (Original) A method for manufacturing a stainless steel separator for use in a fuel cell according to claim 5, characterized in that the alkaline solution for passivation treatment is a solution of pH 9 to 12 brought to 40 to 60°C.
- 7. (Original) A method for manufacturing a stainless steel separator for use in a fuel cell according to claim 6, characterized in that the alkaline solution for passivation treatment is a solution with a pH buffer added.
- 8. (Cancelled)
- 9. (Original) A method for manufacturing a stainless steel separator for use in a fuel cell according to claim 5, characterized in that the alkaline solution for cleaning is a solution made by adding a surfactant to a basic salt.